



Philips 9000 series  
LED TV with Ambilight  
Spectra 3 and Perfect Pixel  
HD Engine

46"

Full HD 1080p digital TV



46PFL9704H

## Brings movies to life

With Ambilight and LED Pro

Be captivated by the immersive power of Ambilight. Featuring the stunning Perfect Pixel HD engine, a LED Pro and powerful sound, movies really come to life in your living room.

### Immersive viewing experience

- Ambilight Spectra 3 for an immersive viewing experience

### Breathtaking perfect pictures

- Perfect Pixel HD Engine for unrivalled sharpness and clarity
- Full HD LCD display, with a 1920x1080p resolution
- LED Pro for extreme contrast and brilliance
- Perfect Natural Motion for ultra smooth Full HD movies
- 200Hz Clear LCD\*, 1ms performance: extreme motion sharpness
- Wide Color Gamut LCD display for brilliant colors
- Dynamic contrast 5.000.000:1 for ultimate brilliant images

### Connect and enjoy the online world

- Net TV with Wi-Fi for popular online services on your TV
- Enjoy a rich selection of web videos from YouTube and others

### Ready for digital

- MPEG4 HDTV reception via DVB-T and DVB-C tuner with CI+\*



**PHILIPS**  
sense and simplicity

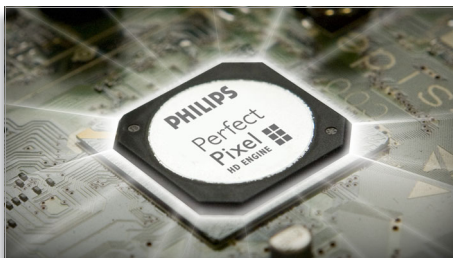
# Highlights

## Ambilight Spectra 3



Add a new dimension to your viewing experience with Ambilight Spectra 3. This patented Philips technology enlarges the screen further by projecting a glow of light from the back of the screen onto the surrounding wall. Ambilight adjusts automatically the colour and brightness of the light surrounding the TV to match with the picture, creating an immersive viewing experience. With Ambilight Spectra 3 movies truly come to life!

## Perfect Pixel HD Engine



Experience unrivalled sharpness and clarity with Perfect Pixel HD Engine. Each pixel of the picture is enhanced to better match the surrounding pixels, resulting in a more natural picture. The result is a unique combination of sharpness, natural detail, vivid colors superior contrast and smooth natural motion whatever you are watching. Clean and razor sharp images result from artifact and noise detection and reduction in all content sources - from multimedia to standard TV.

## Full HD LCD display 1920x1080p



The Full HD screen has the widescreen resolution of 1920 x 1080p. This is the highest resolution of HD sources for the best possible picture quality. It is fully future proof as it supports 1080p signals from all sources, including the most recent like Blu-ray and advanced HD game consoles. The signal processing is extensively upgraded to support this much higher signal quality and resolution. It produces brilliant flicker-free progressive scan pictures with superb brightness and colors.

## Net TV with Wi-Fi



Experience a rich selection of online services with Net TV. Enjoy movies, pictures, infotainment and other online content directly on your TV whenever you like. Simply connect your TV directly to your home network through either the integrated Wi-Fi wireless or ethernet connections, and navigate and select what you want to watch with the TV remote control. The Philips menu gives you access to popular Net TV services fitted for your TV screen. Additionally, with the DLNA certified PC network you can watch videos or access pictures stored on your computer using your TV remote control.

## LED Pro

Enjoy breathtaking pictures and use up to 40% less energy with Philips award winning LED Pro! Over 1000 LED's are operated selectively in a grid as a backlight for the display. They generate brilliant light in bright image areas, and are dimmed completely in dark areas, saving energy. Combined with the powerful Perfect Pixel HD Engine, the result is a stunning picture with extreme contrast, sharpness and vibrant color. With LED Pro black is black and white is bright.

## Perfect Natural Motion

Enjoy the action without any judder. Perfect Natural Motion estimates motion in the picture and corrects juddering movements in both broadcast and pre-recorded movie material (including 1080p movies and 24p True Cinema on Blu-ray and DVD). The result is even smoother and quieter pictures with excellent sharpness, regardless of how quick the action gets on-screen. Enjoy motion performance that surpasses cinema quality!

## 200Hz Clear LCD\* (1ms)

Enjoy extreme motion sharpness without picture imperfections. The Philips 200Hz Clear LCD brings the response time of LCD TV to an incredible 1ms, so even with the fastest action scene you will be enthralled by the action, and not following the stretched car across the screen. Go ahead, enjoy the action!

## MPEG4 DVB-T/C tuner with CI+\*

HDTV allows you to watch TV in the best possible picture and sound quality, without additional set-top box. Thanks to the built in tuner that supports DVB-Terrestrial and DVB-Cable signals for both MPEG-2 and MPEG-4 formats, you receive high definition TV programs in exceptional quality. Moreover, with Common Interface Plus (CI+) you benefit from premium high definition content directly on your TV.



# Specifications

## Picture/Display

- Aspect ratio: Widescreen
- Brightness: 500 cd/m<sup>2</sup>
- Dynamic screen contrast: 5.000.000:1
- Response time (typical): 1 (BEW equiv.) ms
- Viewing angle: 176° (H) / 176° (V)
- Diagonal screen size: 46 inch / 117 cm
- Display screen type: LCD Full HD W-UXGA Act. matrix
- Panel resolution: 1920x1080p
- Picture enhancement: Perfect Pixel HD Engine, Perfect Natural Motion, Perfect Contrast, Perfect Colors, Wide Color Gamut display, 3/2 - 2/2 motion pull down, 3D Combfilter, Active Control + Light sensor, Jagged Line Suppression, Progressive Scan, 1080p 24/25/30Hz processing, 1080p 50/60Hz processing, 200Hz Clear LCD\*, Scanning backlight, Local dimming LED backlight, Segmented LED backlight
- Screen enhancement: Anti-Reflection coated screen
- Color processing: 2250 trillion colors 17bit RGB

## Ambilight

- Ambilight Features: Ambilight Spectra 3, Lounge light mode
- Dimming Function: Manual and via Light Sensor
- Ambilight light system: LED wide color

## Supported Display Resolution

### Computer formats

Resolution	Refresh rate
640 x 480	60Hz
800 x 600	60Hz
1024 x 768	60Hz
1280 x 768	60Hz
1360 x 768	60Hz
1920 x 1080	60Hz

### Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
576i	50Hz
576p	50Hz
720p	50, 60Hz
1080i	50, 60Hz
1080p	24, 50, 60Hz
1080p	24, 25, 30Hz

## Sound

- Output power (RMS): 2 x 15W
- Sound Enhancement: Auto Volume Leveller, Digital Signal Processing, Dynamic Bass Enhancement,

- Treble and Bass Control
- Sound System: BBE

## Loudspeakers

- Built-in speakers: 4
- Loudspeaker types: 2 integrated subwoofers, 2x Dome tweeter

## Convenience

- Child Protection: Child Lock+Parental Control
- Connection Enhancement: Easy link
- Ease of Installation: Auto Program Naming, Automatic Channel Install(ACI), Automatic Tuning System (ATS), Autostore, Fine Tuning, PLL Digital Tuning, Plug & Play
- Ease of Use: Auto Volume Leveller (AVL), Delta Volume per preset, Graphical User Interface, On Screen Display, Program List, Settings assistant Wizard, Side Control, Connectivity assistant, Automatic setup wizard, Demo mode, Onscreen Usermanual, Touch control buttons, Favorite program selection, Iconic home scene, Mozaïc channel grid
- Electronic Program Guide: Now + Next EPG, 8day Electronic Program Guide\*
- Picture in Picture: Text dual screen
- Remote Control: DVD, DVD-R, Sat, STB (Set-Top Box), Universal, HTS (Home Theater System)
- Remote control type: RC4496
- Screen Format Adjustments: 4:3, Auto Format, Movie expand 14:9, Movie expand 16:9, Subtitle and Heading Shift, Super Zoom, Widescreen, unscaled (1080p dot by dot)
- Teletext: 1200 page Hypertext
- Firmware upgradeable: Firmware auto upgrade wizard, Firmware upgradeable via USB
- Multimedia: Digital media reader (browser), USB autobreak-in, DLNA media Browser, Net TV services
- Smart mode: Game, Cinema, Personal, Power saver, Standard, Vivid

## Multimedia Applications

- Multimedia connections: Ethernet-UTP5, USB, Wi-Fi 802.11g (built in)
- Playback Formats: MP3, WMA v2 up to v9.2, Slideshow files (.alb), JPEG Still pictures, MPEG1, MPEG2, MPEG4, AVI, H.264/MPEG-4 AVC, MPEG-Program-stream PAL, WMV9/VC1

## Tuner/Reception/Transmission

- Aerial Input: 75 ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8K

- Video Playback: NTSC, SECAM, PAL
- DVB: DVB Terrestrial \*, DVB-T MPEG4\*, DVB-C MPEG4\*, MHEG
- Tuner bands: Hyperband, S-Channel, UHF, VHF

## Connectivity

- Ext 1 Scart: Audio L/R, CVBS in, RGB
- Ext 2 Scart: Audio L/R, CVBS in, RGB
- Ext 3: YPbPr, Audio L/R in, VGA PC-in
- Front / Side connections: HDMI v1.3, S-video in, CVBS in, Audio L/R in, Headphone out, USB
- PC network link: DLNA 1.0 certified
- Other connections: Analog audio Left/Right out, S/PDIF out (coaxial), Common Interface
- HDMI 1: HDMI v1.3
- HDMI 2: HDMI v1.3
- HDMI 3: HDMI v1.3
- HDMI 4: HDMI v1.3
- EasyLink (HDMI-CEC): One touch play, EasyLink, Pixel link, Remote control pass-through, System audio control, System standby

## Power

- Ambient temperature: 5 °C to 35 °C
- Mains power: AC 220 - 240 V +/- 10%
- Power consumption (typical): 104 W
- Standby power consumption: < 0.15 W

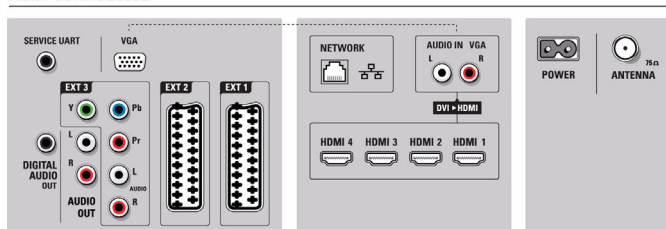
## Dimensions

- Set dimensions (W x H x D): 1123 x 701 x 89 mm
- Set dimensions with stand (H x D): 767 x 280 mm
- Product weight: 25.4 kg
- Product weight (+stand): 29 kg
- Box dimensions (W x H x D): 1231 x 1040 x 338 mm
- Color cabinet: Brushed aluminium decofront
- VESA wall mount compatible: 400 x 400 mm

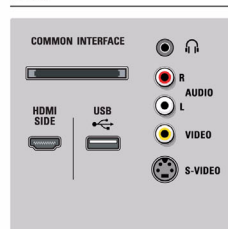
## Accessories

- Included Accessories: Tabletop swivel stand, RF antenna cable, Power cord, Quick start guide, Warranty certificate, Remote Control, Batteries for remote control, Legal and safety brochure, Net TV brochure
- Optional accessories: Smart level wallmount SQM6175, DVB-S module PFS0001\*

## Rear connectors



## Side



Issue date 2009-08-28

Version: 4.4.8

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[www.philips.com](http://www.philips.com)

\* 200Hz Clear LCD displays 200 scenes per second by combining advanced 100Hz technology with scanning backlight @ 50% dutycycle.

\* 8 days EPG, service not available in all countries

\* DVB-T, supported in selected countries only

\* DVB-C in selected countries and for selected operators only. Most up to date information is available on the type plate of the TV.

\* Net TV, service offering is dependent on country and subject to terms of use.

\* Optional Philips DVB-S module required (part no. PFS0001, only available in Germany, Austria and Switzerland)